

Claims:

5 1. A discharge outlet for a double walled containment tank having an inner tank having a chamber for receiving liquid therein and a port for the passage of liquid therethrough, and an outer containment vessel having an access opening aligned with the port, the inner tank and the outer containment vessel defining a containment area therebetween, said discharge outlet comprising:

a conduit fluidically coupled to the inner tank;

10 a flexible, annular sealing member positioned between the inner tank and the outer containment vessel in substantial alignment with the port and the access opening in surrounding relationship to said conduit;

15 a first coupler for connecting said sealing member to the inner tank around the port; and

20 a second coupler for connecting said sealing member to the outer containment vessel around the access opening and thereby fluidically isolating the containment area from the access opening.

25 2. A discharge outlet as set forth in claim 1, wherein said sealing member includes a circumferentially extending cup-shaped protrusion.

30 3. A discharge outlet as set forth in claim 2, wherein said sealing member is a flexible synthetic resin material.

35 4. A discharge outlet as set forth in claim 3, wherein said sealing member includes a substantially flat inner wall extending radially inwardly from said protrusion and having a central hole therein for permitting the passage of liquid therethrough.

40 5. A discharge outlet as set forth in claim 4, wherein said first coupler includes an inner flange positioned in the chamber and an outer flange positioned in the containment area for receiving a wall of the inner tank therebetween, each of said inner flange and intermediate flange having a central opening for the passage of liquid therethrough.

6. A discharge outlet as set forth in claim 5, wherein said conduit includes a discharge tube fluidically connected to said intermediate flange and having a length sufficient to extend exteriorly of the outer vessel.

5 7. A discharge outlet as set forth in claim 6, wherein said conduit includes an inner tube fluidically connected to said inner flange.

10 8. A discharge outlet as set forth in claim 3, wherein said sealing member includes a substantially flat outer wall extending radially inwardly from said protrusion and having an inner margin.

15 9. A discharge outlet as set forth in claim 8, wherein said inner margin is spaced outwardly from said conduit.

20 10. A discharge outlet as set forth in claim 3, wherein said second coupler includes an inner flange plate positioned in said channel.

25 11. A discharge outlet as set forth in claim 10, wherein said inner flange is provided as two semi-annular flange plate halves.

30 12. A discharge outlet as set forth in claim 11, wherein said second coupler includes an outer flange plate and positioned relatively exteriorly of said flat outer wall.

35 13. A sealing boot adapted for use with a double-walled containment tank assembly having an inner wall, an outer wall and a containment area therebetween, said sealing boot comprising:

a cup-shaped circumferentially extending protrusion;
an inner wall extending radially inward from said protrusion and presenting a central hole; and
an outer wall extending radially inward from said protrusion and presenting an inner margin.

14. A sealing boot as set forth in claim 13, wherein said sealing boot is provided of synthetic resin material.

15. A sealing boot as set forth in claim 14, wherein said inner wall is substantially flat and includes a plurality of apertures surrounding said central hole.

5 16. A sealing boot as set forth in claim 13, wherein said central hole has a diameter and the inner margin has a transverse dimension, and wherein the diameter is smaller than the transverse dimension.

10 13 17. A double walled containment tank assembly comprising:
an inner tank having a chamber for receiving liquid therein and a port for the
passage of liquid therethrough;

15 an outer containment vessel having an access opening aligned with the port, the
inner tank and the outer containment vessel defining a containment area
therebetween; and

20 a discharge outlet, said discharge outlet including:

a conduit fluidically coupled to said inner tank;

a flexible, annular sealing member positioned between said inner tank
and said outer containment vessel in substantial alignment with
said port and said access opening in surrounding relationship to
said conduit;

25 a first coupler for connecting said sealing member to said inner tank
around said port; and

a second coupler for connecting said sealing member to said outer
containment vessel around said access opening and thereby
fluidically isolating said containment area from said access
opening.

14 13 18. A containment tank as set forth in claim 17, wherein said sealing
member includes a circumferentially extending cup-shaped protrusion.

30 15 19. A containment tank as set forth in claim 18, wherein said sealing
member is a flexible synthetic resin material.

14 13 20. A containment tank as set forth in claim 19, wherein said sealing
member includes a substantially flat inner wall extending radially inwardly from said
protrusion and having a central hole therein for permitting the passage of liquid
therethrough.

5 21. A containment tank as set forth in claim 20, wherein said first coupler includes an inner flange positioned in said chamber and an outer flange positioned in the containment area for receiving a wall of said inner tank therebetween, each of said inner flange and intermediate flange having a central opening for the passage of liquid therethrough.

10 22. A containment tank as set forth in claim 21, wherein said conduit includes a discharge tube fluidically connected to said intermediate flange and having a length sufficient to extend exteriorly of said outer vessel.

15 23. A containment tank as set forth in claim 22, wherein said conduit includes an inner tube fluidically connected to said inner flange and extending into said chamber adjacent a bottom wall of said inner tank.

20 24. A containment tank as set forth in claim 19, wherein said sealing member includes a substantially flat outer wall extending radially inwardly from said protrusion and having an inner margin, said outer wall being positioned proximate said outer vessel.

25 25. A containment tank as set forth in claim 24, wherein said inner margin is spaced outwardly from said conduit.

30 26. A containment tank as set forth in claim 19, wherein said second coupler includes an inner flange plate positioned in said channel.

27. A containment tank as set forth in claim 26, wherein said inner flange is provided as two semi-annular flange plate halves.

28. A containment tank as set forth in claim 27, wherein said second coupler includes an outer flange plate and positioned relatively exteriorly of said flat outer wall and proximate said outer vessel.